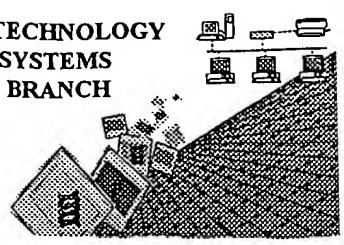


1645

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



P#17

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

RECEIVED

Application Serial Number: 09/597,796B  
Source: \_\_\_\_\_  
Date Processed by STIC: 12/27/2002

JAN 06 2003

TECH CENTER 1600/25

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

**\*09597796\***

1600

**RECEIVED****JAN 06 2003****RAW SEQUENCE LISTING**

DATE: 12/27/2002

PATENT APPLICATION: US/09/597,796B

TIME: 15:07:36

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

**TECH CENTER 1600/29**

3 <110> APPLICANT: Skeiky, Yasir  
 4       Reed, Steven  
 5       Alderson, Mark  
 6       Corixa Corporation  
 8 <120> TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis  
 10 <130> FILE REFERENCE: 014058-009050US  
 12 <140> CURRENT APPLICATION NUMBER: US 09/597,796B  
 13 <141> CURRENT FILING DATE: 2000-06-20  
 15 <150> PRIOR APPLICATION NUMBER: US 09/056,556  
 16 <151> PRIOR FILING DATE: 1998-04-07  
 18 <150> PRIOR APPLICATION NUMBER: US 09/223,040  
 19 <151> PRIOR FILING DATE: 1998-12-30  
 21 <150> PRIOR APPLICATION NUMBER: WO PCT/US99/07717  
 22 <151> PRIOR FILING DATE: 1999-04-07  
 24 <150> PRIOR APPLICATION NUMBER: US 09/287,849  
 25 <151> PRIOR FILING DATE: 1999-04-07  
 27 <150> PRIOR APPLICATION NUMBER: US 60/158,338  
 28 <151> PRIOR FILING DATE: 1999-10-07  
 30 <150> PRIOR APPLICATION NUMBER: US 60/158,425  
 31 <151> PRIOR FILING DATE: 1999-10-07  
 33 <160> NUMBER OF SEQ ID NOS: 30  
 35 <170> SOFTWARE: PatentIn Ver. 2.1  
 37 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 588  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Mycobacterium tuberculosis  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: CDS  
 47 <222> LOCATION: (1)..(588)  
 48 <223> OTHER INFORMATION: Ra35  
 50 <400> SEQUENCE: 1  
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 52 tccgcgatgg tcgccaagt ggggccacag gtggtcaaca tcaacaccaa actgggctac 120  
 53 aacaacgccc tgggcgcggg gaccggcatc gtcacgatc ccaacgggtg cgtgctgacc 180  
 54 aacaaccacg tgatcgcggg cgccaccgac atcaatgcgt tcagcgctgg ctccggccaa 240  
 55 acctacggcg tcgatgtggt cgggtatgac cgcaccacag atgtcgcggt gctgcagctg 300  
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 57 gtcgtcgcgc tgggcaacag cggtgggcag ggcggaacgc cccgtgcggg gcctggcagg 420  
 58 gtggtcgcgc tcggccaaac cgtgcaggcg tcggattcgc tgaccgggtg cgaagagaca 480  
 59 ttgaacgggt tgatccagtt cgatgccgag atccagcccg gtgattcggg cgggcccgtc 540  
 60 gtcaacggcc taggacaggt ggtcggtatg aacacggccc cgtcctag 588

Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/09/597,796B

TIME: 15:07:36

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

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63 <210> SEQ ID NO: 2
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65 <212> TYPE: PRT
66 <213> ORGANISM: Mycobacterium tuberculosis
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Ra35, N-terminus of MTB32A (TbRa35FL)
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73   1           5           10           15
74 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val
75   20           25           30
76 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
77   35           40           45
78 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val
79   50           55           60
80 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
81   65           70           75           80
82 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
83   85           90           95
84 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
85   100          105          110
86 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
87   115          120          125
88 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu
89   130          135          140
90 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
91  145          150          155          160
92 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
93   165          170          175
94 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr
95   180          185          190
96 Ala Ala Ser
97   195
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101 <211> LENGTH: 1872
102 <212> TYPE: DNA
103 <213> ORGANISM: Mycobacterium tuberculosis
105 <220> FEATURE:
106 <223> OTHER INFORMATION: MTB32A (TbRa35FL) cDNA
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109 <221> NAME/KEY: modified_base
110 <222> LOCATION: (1460)
111 <223> OTHER INFORMATION: n = g, a, c or t
113 <220> FEATURE:
114 <221> NAME/KEY: modified_base
115 <222> LOCATION: (1854)
116 <223> OTHER INFORMATION: n = g, a, c or t
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119 gactacgttg gtgtagaaaa atcctgccgc ccggaccctt aaggctggga caatttctga 60

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## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/09/597,796B

TIME: 15:07:36

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

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120 tagctacccc gacacaggag gttacgggat gagcaattcg cgccgcccgt cactcagggtg 120
121 gtcattggtg ctgagcgtgc tggctgccgt cgggctgggc ctggccacgg cgccggccca 180
122 ggcggccccg ccggccttgt cgcaggaccg gttcgcgcac ttccccgcgc tgcctctcga 240
123 cccgtcccg cgtggtcgcc aagtggcgcc acagggtggtc aacatcaaca ccaaactggg 300
124 ctacaacaac gccgtgggag ccgggaccgg catcgtcatc gatcccaacg gtgctgtgct 360
125 gaccaacaac cacgtgatcg cgggcgccac cgacatcaat gcgttcagcg tcggctccgg 420
126 ccaaacctac ggcgtcgatg tggtcgggta tgaccgcacc caggatgtcg cgggtgtgca 480
127 gctgcgcggt gccggtggcc tgccgtcgcc ggcgatcggt ggccgctcg cggttggtga 540
128 gccgctcgtc gcgatgggca acagcggtgg gcagggcgga acgcccgtg cggtgcctgg 600
129 cagggtggtc gcgctcggcc aaaccgtgca ggcgtcggat tcgctgaccg gtgcgaaga 660
130 gacattgaac gggttgatcc agttcgatgc cgcaatccag cccggtgatt cgggcggggc 720
131 cgtcgtcaac ggctaggac aggtggtcgg tatgaacacg gccgcgtccg ataactcca 780
132 gctgtcccag ggtgggcagg gattcgccat tccgatcggg caggcgatgg cgatcgcg 840
133 ccaaaccga tcgggtggg ggtcaccac cgttcatatc gggcctaccg ccttctcgg 900
134 cttgggtgtt gtcgacaaca acggcaacgg cgcacgagtc caacgcgtgg tcggaagcgc 960
135 tccggcggca agtctcggca tctccaccgg cgacgtgatc accgcggtcg acggcgctcc 1020
136 gatcaactcg gccaccgca tggcggacgc gcttaacggg catcatcccg gtgacgtcat 1080
137 ctcggtgaac tggcaaacca agtcgggcgg cacgcgtaca gggaacgtga cattggccga 1140
138 gggacccccg gctgatttg tcgcggatag caccgcggcg ccggccaatt ggattggcgc 1200
139 cagccgtgat tgcgcgtga gccccgagt tccgtctccc gtgcgcgtgg cattgtgga 1260
140 gcaatgaacg aggcagaaca cagcgttgag caccctcccg tgcagggcag ttacgtcga 1320
141 ggcggtgtg tcgagcatcc ggatgccaag gacttcgga gegccgcgc cetgcccgc 1380
142 gatccgacct ggtttaagca cgccgtcttc tacgaggtgc tggtcggggc gttcttcga 1440
W--> 143 gccagcgcgg acggttccgn cgatctgcgt ggactcatcg atcgctcga ctactgcag 1500
144 tggcttgga tcgactgat ctgttgccgc cgttcctaeg actcaccgct gcgcgacggc 1560
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146 gtcgccctgg tcgacaccgc tcaccggcga ggtatccgca tcatcaccga cctgggtgatg 1680
147 aatcacacct cggagtcgca cccctggttt caggagtccc ggcgcgacc agagggaccg 1740
148 tacggtgact attacgtgtg gagcgacacc agcagcgct acaccgacgc ccggtatcatc 1800
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150 gcaaccgattc tt 18720
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154 <211> LENGTH: 355
155 <212> TYPE: PRT
156 <213> ORGANISM: Mycobacterium tuberculosis
158 <220> FEATURE:
159 <223> OTHER INFORMATION: MTB32A (TbRa35FL) protein
161 <400> SEQUENCE: 4
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163 1 5 10 15
164 Val Leu Ala Ala Val Gly Leu Gly Leu Ala Thr Ala Pro Ala Gln Ala
165 20 25 30
166 Ala Pro Pro Ala Leu Ser Gln Asp Arg Phe Ala Asp Phe Pro Ala Leu
167 35 40 45
168 Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Ala Pro Gln Val Val
169 50 55 60
170 Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr
171 65 70 75 80
172 Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val

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## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/09/597,796B

TIME: 15:07:36

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

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173           85           90           95
174 Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln
175           100           105           110
176 Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala
177           115           120           125
178 Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly
179           130           135           140
180 Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly
181 145           150           155           160
182 Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu 10
183           165           170           175
184 Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr
185           180           185           190
186 Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser
187           195           200           205
188 Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr
189           210           215           220
190 Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe Ala
191 225           230           235           240
192 Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser Gly
193           245           250           255
194 Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu
195           260           265           270
196 Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val
197           275           280           285
198 Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile
199           290           295           300
200 Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp
201 305           310           315           320
202 Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp Gln
203           325           330           335
204 Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly
205           340           345           350
206 Pro Pro Ala
207           355
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 447
212 <212> TYPE: DNA
213 <213> ORGANISM: Mycobacterium tuberculosis
215 <220> FEATURE:
216 <223> OTHER INFORMATION: MTBRa12 C-terminus of MTB32A (Ra35FL)
218 <400> SEQUENCE: 5
219 cggatatgaac acggcgcgct ccgataactt ccagctgtcc caggggtgggc agggattcgc 60
220 cattccgatac gggcaggcga tggcgatcgc gggccagatc cgatcgggtg gggggtcacc 120
221 caccgttcac atcgggccta ccgccttcct cggttggtg gttgtcgaca acaacggcaa 180
222 cggcgacaga gtccaacgcg tggtcgggag cgctccggcg gcaagtctcg gcatctccac 240
223 cggcgacgtg atcaccgagg tcgacggcgc tccgatcaac tcggccaccg cgatggcgga 300
224 cgcgcttaac gggcatcatc ccggtgacgt catctcggtg aactggcaaa ccaagtcggg 360
225 cggcacgcgt acaggaacg tgacattggc cgagggaccc ccggcctgat ttcgtcgygg 420

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## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/09/597,796B

TIME: 15:07:36

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

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230 <211> LENGTH: 132
231 <212> TYPE: PRT
232 <213> ORGANISM: Mycobacterium tuberculosis
234 <220> FEATURE:
235 <223> OTHER INFORMATION: MTBRa12 C-terminus of MTB32A (Ra35FL)
237 <400> SEQUENCE: 6
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239   1           5           10           15
240 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
241           20           25           30
242 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
243           35           40           45
244 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
245           50           55           60
246 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
247           65           70           75           80
248 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
249           85           90           95
250 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
251           100          105          110
252 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
253           115          120          125
254 Gly Pro Pro Ala
255           130
258 <210> SEQ ID NO: 7
259 <211> LENGTH: 3058
260 <212> TYPE: DNA
261 <213> ORGANISM: Mycobacterium tuberculosis
263 <220> FEATURE:
264 <223> OTHER INFORMATION: MTB39 (TbH9) cDNA full-length
266 <400> SEQUENCE: 7
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268 ggcataccca gagatgttgg cggcggcggc tgacaccctg cagagcatcg gtgctaccac 120
269 tgtggctagc aatgccgctg cggcggcgcc gacgactggg gtggtgcccc ccgctgcca 180
270 tgagggtgctg gcgctgactg cggcgcaactt cgccgcacat gcggcgatgt atcagtccgt 240
271 gagcgctcgg gctgctgcca ttcatgacca gttcgtggcc acccttgcca gcagcgccag 300
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273 gcacgagaaa ccacgagaaa tagggacacg taatggtgga tttcggggcg ttaccaccgg 420
274 agatcaactc cgcgaggatg tacgccggcc cgggttcggc ctgcgctgtg gccgcggctc 480
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276 tctggggtct gacggtgggg tcgtggatag gttcgtcgcc gggctctgat gtggcgccgg 600
277 cctcgccgta tgtggcgtgg atgagcgtca ccgcggggca ggccgagctg accgccgcc 660
278 aggtccgggt tgctgcggcg gcctacgaga cggcgtatgg gctgacggtg ccccgccgg 720
279 tgatcgccga gaaccgtgct gaactgatga ttctgatagc gaccaacctc ttggggcaaa 780
280 acaccccggc gatcgcggtc aacgaggccg aatacggcga gatgtgggcc caagacgccg 840
281 ccgcgatgtt tggctacgcc gcggcgacgg cgacggcgac ggcgacgttg ctgccgttcg 900
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09/577,796B

6

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 <211> LENGTH: 851  
 <212> TYPE: DNA  
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 <220> FEATURE:  
 <223> OTHER INFORMATION: MTB39 (TbH9) cDNA  
 <400> SEQUENCE: 25

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cgccgagaac cgtgctgaac tgatgattct gatagcgacc aacctcttgg ggcaaaacac 180
cccggcgatc gcggtcaacg aggccgaata cggcgagatg tgggccaag acgccgccgc 240
gatgtttggc tacgccgcg cgacggcgac ggcgacggcg acgttgctgc cgttcgagga 300
ggcgccggag atgaccagcg cgggtgggct cctcgagcag gccgccgcgg tcgaggaggc 360
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ctcgccgcat cggtcgccga tcagcaacat ggtgtcgatg gccaacaacc acatgtcgat 540
gaccaactcg ggtgtgtcga tgaccaacac cttgagctcg atgttgaagg gctttgctcc 600
ggcggcgggc gcccaggccg tgcaaaccgc ggcgcaaaac ggggtccggg cgatgagctc 660
gtcggcgagc tcgctggggt ctccgggtct gggcggtggg gtggccgcca acttggtcgc 720
ggcgccctcg gtacggtatg gtcaccggga tggcgaaaaa tatgcana0gt ctggtcggcg 780
gaacggtggt ccggcgtaag gtttaccgcc gttttctgga tgcggtgaac ttcgtcaacg 840
gaaacagtta c                                     851

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<210> SEQ ID NO 26  
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 <213> ORGANISM: Mycobacterium tuberculosis  
 <220> FEATURE:  
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 <400> SEQUENCE: 26

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  20          25          30
Val Pro Pro Val Ile Ala Glu Asn Arg Ala Glu Leu Met Ile Leu
  35          40          45
Ile Ala Thr Asn Leu Leu Gly Gln Asn Thr Pro Ala Ile Ala Val Asn
  50          55          60
Glu Ala Glu Tyr Gly Glu Met Trp Ala Gln Asp Ala Ala Ala Met Phe
  65          70          75          80
Gly Tyr Ala Ala Ala Thr Ala Thr Ala Thr Ala Thr Leu Leu Pro Phe
  85          90          95
Glu Glu Ala Pro Glu Met Thr Ser Ala Gly Gly Leu Leu Glu Gln Ala
 100         105         110
Ala Ala Val Glu Glu Ala Ser Asp Thr Ala Ala Ala Asn Gln Leu Met
 115         120         125
Asn Asn Val Pro Gln Ala Leu Lys Gln Leu Ala Gln Pro Thr Gln Gly
 130         135         140
Thr Thr Pro Ser Ser Lys Leu Gly Gly Leu Trp Lys Thr Val Ser Pro
 145         150         155         160
His Arg Ser Pro Ile Ser Asn Met Val Ser Met Ala Asn Asn His Met
 165         170         175
Ser Met Thr Asn Ser Gly Val Ser Met Thr Asn Thr Leu Ser Ser Met
 180         185         190
Leu Lys Gly Phe Ala Pro Ala Ala Ala Ala Gln Ala Val Gln Thr Ala
 195         200         205
Ala Gln Asn Gly Val Arg Ala Met Ser Ser Leu Gly Ser Ser Leu Gly

```

see  
 P. 8 for  
 error  
 explanation

see  
 P. 7

210 215 220  
Ser Ser Gly Leu Gly Gly Gly Val Ala Ala Asn Leu Gly Arg Ala Ala  
225 230 235 240  
Ser Val Arg Tyr Gly His Arg Asp Gly Gly Lys Tyr Ala Xaa Ser Gly  
245 250 255  
Arg Arg Asn Gly Gly Pro Ala  
260

see p. 8 for  
error explanation



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002  
TIME: 15:07:37

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

*Error Explanation*  
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1460,1854

Seq#:11; N Pos. 30,33,2270

Seq#:17; N Pos. 497,500,1136,1445,1487,1509,1515

Seq#:25; N Pos. 767

Seq#:26; Xaa Pos. 254

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/597,796B

DATE: 12/27/2002

TIME: 15:07:37

Input Set : A:\14058905.app

Output Set: N:\CRF4\12272002\I597796B.raw

L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1440  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1800  
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2220  
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
L:811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080  
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1440  
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1500  
L:1095 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:25  
L:1095 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:25  
L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:720  
L:1139 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:26  
L:1139 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:26  
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240  
L:1194 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:27